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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/659,877	09/11/2003	Tatsuo Fukushi	58079US004	5006	
32692	7590 04/07/2005		EXAMINER		
3M INNOV	ATIVE PROPERTIES	COMPANY	HU, HENRY S		
PO BOX 334	427 MN 55133-3427		ART UNIT	PAPER NUMBER	
51.17102,			1713		

DATE MAILED: 04/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/659,877	FUKUSHI ET AL.	
Office Action Summary	Examiner	Art Unit	
	Henry S. Hu	1713	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet with t	he correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply to reply within the statutory minimum of thirty (30 iod will apply and will expire SIX (6) MONTHS statute, cause the application to become ABAND	be timely filed) days will be considered timely. from the mailing date of this communicat ONED (35 U.S.C. § 133).	ion.
Status			
1)⊠ Responsive to communication(s) filed on <u>ID</u>	<u>S of 2-17-2004</u> .		
2a) This action is FINAL . 2b) T	his action is non-final.		
3) Since this application is in condition for allow	wance except for formal matters,	prosecution as to the merits	is
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D. 11	, 453 O:G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-20</u> is/are pending in the applicati	on.		
4a) Of the above claim(s) is/are withd			
5) Claim(s) is/are allowed.			
6)☐ Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) <u>1-20</u> are subject to restriction and/o	or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Exam	iner.		
10)☐ The drawing(s) filed on is/are: a)☐ a	ccepted or b) Objected to by t	he Examiner.	
Applicant may not request that any objection to t	he drawing(s) be held in abeyance.	See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corr	• • • • • • • • • • • • • • • • • • • •		` '
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached Of	fice Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for forei	ign priority under 35 U.S.C. § 11	9(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:	anta harra ha an na aatra d	٠.	
1. Certified copies of the priority docume		agtion No	
2. Certified copies of the priority docume3. Copies of the certified copies of the priority docume			
application from the International Bure	·	cived in this Hational Otage	
* See the attached detailed Office action for a l		eived.	
	·		
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Sumn		
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	Paper No(s)/Ma		
U.S. Patent and Trademark Office	Action Summary	Part of Paper No./Mail Date 0	305

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DETAILED ACTION

1. It is noted that Applicants' IDS filed on February 17, 2004 was received. Claims 1-20 with independent Claims 1 and 17-18 are pending now. An action follows.

Election/Restrictions

- 2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
- I. Claims 1-16 and 18-20, drawn to a compound comprising a copolymer of one or more perfluorinated ethers of formula I and II, classified in class 526, subclass 247.
- II. Claim 17, drawn to a compound comprising a terpolymer of vinylidene fluoride with one or more perfluorinated ethers of formula I and II, classified in class 526, subclass 255.
- 3. <u>Inventions I and II are unrelated.</u> Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different same functions, or different effects (MPEP § 806.04, MPEP § 808.01).

In the instant case, the fluoropolymers made from Invention I and II, each of them may contain some repeating units from other invention. However, the individual property of monomers will not be shown in its polymers mainly due to tremendous difference in

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molecular weight. Although perfluorinated ethers of formula I and II are used in both cases, Invention I relates to a copolymer only made from perfluorinated ethers, while Invention II is restricted to use both vinylidene fluoride with perfluorinated ethers. Since they are two different copolymers, which may be from different polymerization and with different properties, they are therefore different inventions.

With the presence of hydrogen atoms in the backbone, vinylidene fluoride-containing polymers are behaving different from perfluoropolymers in view of the structure and properties. Furthermore, the process of making is unique and thereby not interchangeable. Therefore, the scope of the claims, i.e., the metes and boundaries are distinct.

- 4. With respect to perfluorinated ethers, Formula I is quite different from Formula II in view of the structure and properties. In the case either Group I or Group II is elected, the Applicants need to further elect one of the following two species:
 - Species (1) perfluorinated ethers from Formula I
 - Species (2) perfluorinated ethers from Formula II
 - Species (3) perfluorinated ethers from both Formula I and Formula II
- 5. Because these inventions are distinct for the reasons given above shown as different subject matters and the search required for each group is not required for other groups have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

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Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, Claims 1-16 and 18-20 (Group I) and Claim 17 (Group II) are generic.

6. Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

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7. Applicant is advised that the reply to this requirement to be complete must include an

election of the invention to be examined even though the requirement be traversed (37 CFR

1.143).

It is noted that one phone call was made to **Brian E. Szymanski** (tel: 651 737-9138) on

March 25, 2005 by the examiner, a written letter was decided between examiner and attorney

due to the complexity. Applicant is advised that the reply to this requirement to be complete

must include an election of the invention to be examined even though the requirement be

traversed (37 CFR 1.143).

8. Applicant is advised that the reply to this requirement to be complete must include an

election of the invention to be examined even though the requirement be traversed (37 CFR

1.143). Applicant is reminded that upon the cancellation of claims to a non-elected invention,

the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

currently named inventors is no longer an inventor of at least one claim remaining in the

application. Any amendment of inventorship must be accompanied by a request under 37 CFR

1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

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9. Any inquiry concerning this communication or earlier communication from the examiner

should be directed to Henry S. Hu whose telephone number is (571) 272-1103. The examiner can

be reached on Monday through Friday from 9:00 AM -5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David Wu, can be reached on (571) 272-1114. The fax number for the organization

where this application or proceeding is assigned is (703) 872-9306 for all regular

communications.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Henry S. Hu

March 31, 2005

2) Wh

DAVID W. WU SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1700